

Abstract

Cancer associated antigens have been identified by autologous antibody screening of libraries of nucleic acids expressed in methylcholanthrene-induced fibrosarcoma cancer cells using antisera from mice bearing such tumors. The invention relates to nucleic acids and encoded polypeptides which are cancer associated antigens expressed in mice afflicted with methylcholanthrene-induced fibrosarcomas, as well as homologs thereof, particularly human homologs. The invention provides, *inter alia*, isolated nucleic acid molecules, expression vectors containing those molecules and host cells transfected with those molecules. The invention also provides isolated proteins and peptides, antibodies to those proteins and peptides and cytotoxic T lymphocytes which recognize the proteins and peptides. Fragments of the foregoing including functional fragments and variants also are provided. Kits containing the foregoing molecules additionally are provided. The molecules provided by the invention can be used in the diagnosis, monitoring, research, or treatment of conditions characterized by the expression of one or more cancer associated antigens.